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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/015,911	10/30/2001	Kenneth R. Williams	10018225-1	5815
7590 03/27/2006			EXAMINER	
	ACKARD COMPA	TRAN, LY T		
Intellectual Property Administration P.O. Box 272400			ART UNIT	PAPER NUMBER
	O 80527-2400		2853	

DATE MAILED: 03/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	· · · · · · · · · · · · · · · · · · ·
	10/015,911	WILLIAMS ET AL.	
Office Action Summary	Examiner	Art Unit	
	Ly T. TRAN	2853	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	with the correspondence addres	ss
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN R 1.136(a). In no event, however, may indo will apply and will expire SIX (6) Mu atute. cause the application to become	IICATION. a reply be timely filed  ONTHS from the mailing date of this commu ABANDONED (35 U.S.C. § 133).	
Status			
<ul> <li>1) ⊠ Responsive to communication(s) filed on 1/2 a) ⊠ This action is FINAL. 2b) □ 1/3 Since this application is in condition for all closed in accordance with the practice und</li> </ul>	This action is non-final. wance except for formal ma		erits is
Disposition of Claims			
4) ⊠ Claim(s) <u>1-8,10-16,18,19,22-24,26-34,36-3</u> 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-8,10-16,18,19,22-24,26-34,36-3</u> 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction are	drawn from consideration. 38,40-42,44,45 and 47-49 is		
Application Papers			
9) The specification is objected to by the Exar 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co	accepted or b) objected the drawing(s) be held in abey rrection is required if the drawing	vance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for form a) All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received ir priority documents have be ireau (PCT Rule 17.2(a)).	n Application No en received in this National Sta	age
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-9483) Information Disclosure Statement(s) (PTO-1449 or PTO/S	Paper I	w Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTO-15	52)

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### **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election without traverse of species 1 in the reply filed on 9/26/05 is acknowledged.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 2, 5-7, 10-16, 18, 19, 22-24, 26-34, 36-38, 40-42, 44, 45 47-49 are rejected under 35 U.S.C. 102(b) as being anticipate by Lin (USPN 5,764,263).

With respect to claims 1, 13, 26, 27, 48 Lin discloses an apparatus and a method of a printing system comprising:

- A first set of print bar assemblies (fig.2: element 22) configures to transfer
   a first percentage of an imaging medium onto a first side of print media (S)
- A second set of print bar assemblies (fig.2: element 29) configured to transfer a second percentage of the imaging medium onto the first side of the media (S)
- The print media being advanced such as the second percentage of the imaging medium is transferred onto the first side of print media after the

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first percentage of the image medium is transferred onto the first side of print media (fig.2)

 A heater system configured to remove moisture from the imaging medium after being transferred onto the print media (element 25, 30)

With respect to claim 2, Lin discloses the first set of print bar assemblies transfers a first half of the imaging medium to form a first portion of a printed image on the print media and wherein the second set of the print bar assemblies transfers a second half of the image medium to form a second portion of the printed image (fig.2)

With respect to claims 5, 10, 22, 32, 34, 36, 49 and 7, Lin discloses a first heater (fig.2: element 25) configured to dry the first percentage of the imaging medium and a second heater (fig.2: element 30) configured to dry the second percentage of the imaging medium and the first percentage of the imaging medium dried with the first heater before the second percentage of the imaging medium is transferred onto the print media and the first and second heater poisoned under the print media (Fig.2).

With respect to claims 6 18-20, 33, Lin discloses the first heater (element 25) configured to remove moisture from the first percentage of the image medium before the one or more print bar assemblies of the second print unit transfer the imaging medium onto the print media (fig.2), a second heater (element 30) configured to remove moisture from the second percentage of the image medium.

With respect to claims 12, 23, 37, 38 and 24, Lin discloses that the first heater system and the second heater system each includes a component positioned to

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envelop a portion of the print media and remove moisture from the media (fig.2: element 25, 30)

With respect to claims 14-17, Lin discloses one or more print bar assemblies of a particular print unit or first and second print unit are each configured to transfer a different colored imaging medium onto the print media (fig.2: element 22, 29, C, K, M, Y).

With respect to claims 40-42, Lin discloses a method comprising:

- Depositing ink onto a print media with multiple print units (fig.2: element 22, 29) to collectively form a printed image, each print unit depositing a percentage of the ink onto the print media (S) to form a portion of the printed image, each of print bar assemblies having a different colored ink and at least two of the print bar assemblies having a same colored ink (Fig.2: K, C, M, Y)
- Removing moisture from the print media with multiple heater system
   (Fig.2: element 25, 30) and an individual heater system corresponding to an individual print unit to remove the moisture deposited along with the ink
   by individual print unit

With respect to claim 44, Lin discloses removing includes removing the moisture with the individual heater system (Fig.2: element 25, 30) positioned under a print media routing path positioned to envelop a portion of a print media routing path.

With respect to claim 47, Lin discloses a method comprising transferring multiple percentage of an imaging medium onto a print media to form corresponding multiple

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portion of a printed image, and drying the imaging medium with multiple heaters (fig.2: element 25, 30), an individual heater corresponding to an individual print unit (element 22, 29) to dry percentage of the image medium transferred onto the print media by one or one print bar assemblies (K, C, M, Y) of individual print unit.

With respect to claims 28-31, Lin discloses drying the imaging medium with multiple heaters (Fig.2: element 25, 30, 32, 34), an individual heater corresponding to an individual printing unit (22, 29, 24, 27), one print bar assemblies of at least one other print unit (Element 24, 27)

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 3, 4, 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin (USPN 5,764,263).

With respect to claims 3, 4, and 8, Lin discloses at least one other single print bar assembly (element 24, 27) configured to transfer a percentage of the imaging medium onto the print media and multiple heaters (32, 34) configured to dry the imaging media, an individual heater corresponding to an individual set of print bar assemblies.

While Lin discloses a print bar assembly, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have a set of print

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bar assemblies in order to print multiple colors therefore to obtain different print image and increase printing speed.

## Response to Arguments

4. Applicant's arguments filed 1/13/06 have been fully considered but they are not persuasive.

Applicant argues that Lin does not disclose transferring image to a same side of the media. This argument is not deemed to be persuasive because referring to column 11, line 5-12, Lin discloses that the print head 14 may be located on the same side or different sides of the substrates as print head 12, so images can be printed on the same side or different sides of the substrate.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ly T. TRAN whose telephone number is 571-272-2155. The examiner can normally be reached on M-F (7:30am-5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LT

March 9, 2006

STEPHEN MEIER SUPERVISORY PATENT EXAMINER